

signs of improvement in its performance have become visible.

[Translation]

Water from Ganga-Yamuna to Rajasthan

6171. SHRIMATI KRISHNENDRA KAUR (DEEPA): Will the Minister of WATER RESOURCES be pleased to state:

(a) whether the quantity of water is being supplied to Rajasthan as per the agreement signed in 1957;

(b) if not, the reasons for not supplying the due share of water to Rajasthan after thirty-five years of agreement;

(c) whether the Union government propose to intervene for the supply of water of the Ganga-Yamuna to Rajasthan; and

(d) if so, the time by which the water is likely to be supplied from the Ganga-Yamuna rivers to the Bharatpur, Sowai-Madhopur and Alwar districts of Rajasthan?

THE MINISTER OF WATER RESOURCES (SHRI VIDYACHARAN SHUKLA): (a) There is no such agreement signed in 1957 in regard to supply of water from Ganga-Yamuna to Rajasthan.

(b) Question does not arise.

(c) and (d). Allocation of available Yamuna waters between Basin States are yet to be settled. However, Rajasthan is already utilising about 11 Crore Cubic Metre of Yamuna waters. As regards the waters of Ganga, the National Water Development Agency has under the National perspective of Water Resources Development, recently taken up a broad based study of the Himalayan Rivers Development component which *inter-alia* envisages diversion of surplus

monsoon waters from River Ganga and its eastern tributaries to the waters short areas of Rajasthan also. Their report is expected to be available by the end of the 8th Plan.

[English]

Construction of Power Projects in States

6172. SHIR MOHAMMAD ALI ASHRAF FATMI:
SHRI RAM TAHAL CH-
OUDHARY:
SHRI ARJUN SINGH YADAV:
SHRI KASHIRAM RANA:
SHRI SUKDEO PASWAN:
SHR SRIKANTA JENA:

Will the Minister of POWER AND NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether some power generation units are under construction in Bihar, Uttar Pradesh, Orissa and Gujarat;

(b) if so, the location thereof;

(c) whether the work on these units has been progressing as per the envisaged plan.

(d) if not, the reasons therefor; and

(e) the steps taken by the Government in this regard?

THE MINISTER OF STATE OF THE MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALP NATH RAI): (a) to (d) Details of thermal and hydel power projects under execution in Bihar, U.P., Orissa and Gujarat are given at Annexure. Though the construction work on all the projects is progressing in a planned manner, still there are unavoidable delays, reasons for which have also been indicated in the Statement.

(e) The implementation of the power projects is closely monitored by the Department of Power and the Central Electricity Authority (CEA). Timely assistance is rendered, wherever necessary, to the project authorities to remove any bottlenecks in

supply of equipment, material etc. For this purpose, joint coordination meetings are held by the CEA with the project authorities, manufacturers of equipment and contractors.

STATEMENT

| Sl No | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule | Anticipated commissioning schedule | Reasons for Delay |
|------------------------|--|---------------|---------------------------------|------------------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| THERMAL POWER PROJECTS | | | | | |
| State Sector | | | | | |
| BIHAR | | | | | |
| 1 | Tenughat St 1 (TVNL) 3/79 | | | | |
| | Unit-1 | 210 | 6/85 | 10/92 | a) Delay in acquisition of land |
| | Unit-2 (Distt Girgāth) | 210 | 6/86 | 6/93 | b) Delay in finalisation of award of contract on turnkey basis with BHEL |
| | | | | | c) Paucity of funds |
| | | | | | d) Serious law and order problem at site |
| | | | | | e) Delay in availability of start-up power |

| Sl. No | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule | Anticipated commissioning schedule | Reasons for Delay |
|----------------|--|---------------|---------------------------------|------------------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 2 | Tenughat St II (TVNL) 2/89 | | | | |
| | Unit-3 | 210 | 9/94 | * | Financial tie-up still to be finalised |
| | Unit-4 | 210 | 3/95 | * | |
| | Unit-5 | 210 | 12/95 | * | |
| | (Distt Girdih) | | | | |
| CENTRAL SECTOR | | | | | |
| 1 | Kanalgaoon STPP (NTPC) 2/87 | | | | |
| | Unit-1 | 210 | 1/91 | 3/92 | a) Delay in finalisation of contract with USSR |

| Sl. No. | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule. | Anticipated commissioning schedule. | Reasons for Delay |
|---------|--|---------------|----------------------------------|-------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Unit-2 | 210 | 7/91 | 3/93 | b) Delay in supply of main plant and equipment by USSR. |
| | Unit-3 | 210 | 1/92 | 11/93 | |
| | Unit-4 | 210 | 7/92 | 6/94 | |
| | (Distt. Bhagalpur) | | | | |
| 2. | Bokaro 'B' Extn. (DVC) 6/81 | | | | |
| | Unit-3 (Distt. Giridih) | 210 | 86-87 | 6/92 | a) Delay in execution of various civil works b) Irregular cash flow to the project c) Delay in supply and erection of boiler by ABL |

| Sl. No. | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule. | Anticipated commissioning schedule. | Reasons for Delay |
|----------------------|--|---------------|----------------------------------|-------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| UTTAR PRADESH | | | | | |
| State Sector | | | | | |
| 1. | Tanda TPP Unit-4 (3/79) (Distt. Faizabad) | 210 | 3/85 | 9/92 | a) Paucity of funds b) Delay in supply of equip. By BHEL c) Posting of O&M staff. |
| 2. | Anpara 'B' TPP (9/81) | | | | |
| | Unit-4 | 500 | 86/87 | 7/93 | a) Paucity of funds |
| | Unit-5 | 500 | 87/88 | 6/94 | b) Delay in supply of equip. by BHEL. |

d) Cannibalisation fo U-3 material for existing unit

| Sl. No. | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule. | Anticipated commissioning schedule. | Reasons for Delay |
|-----------------------|--|---------------|----------------------------------|-------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| (Distt Sector (NTPC)) | | | | | |
| Central Sonebhadra | | | | | |
| 1. | Unchahar TPP Extn. (2/89**) | | | | c) Slow rate of boiler erection |
| | Unit- 3 | 210 | 12/93 | | a) Paucity of funds |
| | Unit- 4 | 210 | 6/94 | | b) Finalisation of order for main plant and equpt |
| (Distt Rai Bareilly) | | | | | |
| 2. | NCTPP (3187) | | | | |
| | Unit- 2 | 210 | 5/92 | 9/92 | a) TG erection |
| | Unit- 3 | 210 | 11/92 | 3/93 | b) Delay in supply of equip. by BHEL |
| | Unit- 4 | 210 | 5/93 | 9/93 | |

| Sl No | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule | Anticipated commissioning schedule | Reasons for Delay |
|--|--|---------------|---------------------------------|------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Dis' Ghaziabad (Distt Rai Bareilly) | | | | |
| 3 | Gas based combined cycle project at Dadri 6.89 | | | | Delay in receipt of bypass ducting/ stack and expansion pcs from BHEL |
| | Gas Turbines | | | | |
| | Unit-3 | 131 | 1/92 | 6/92 | |
| | Unit-4 | 131 | 3/92 | 9/92 | |
| | Steam turbine | | | | |
| | Unit-1 | 146.5 | 9/92 | 5/93 | Supply of equipment for WHRB by |
| | Unit-2 | 146.5 | 1/93 | 8/93 | BHEL for steam turbine units |
| | Dist Ghaziabad | | | | |
| ** The project was sanctioned in 2'89 but taken over by NTPC for execution in 2'92 | | | | | |

| Sl No | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule | Anticipated commissioning schedule | Reasons for Delay |
|-----------------------|--|---------------|---------------------------------|------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| ORISSA | | | | | |
| State Sector | | | | | |
| 1 | 1b TPP (OPGC) 4/87 | | | | |
| | Unit 1 | 210 | 3/92 | 9/93 | a) Delay in placement of order for boiler and TG for units 1&2 due to financial constraints |
| | Unit-2 | 210 | 9/92 | 4/94 | |
| | Unit-3 | 210 | 3/93 | . | |
| | Unit-4 (Distt Sambalpur) | 210 | 9/93 | | b) Delay in tying up of financial assistance |
| Central Sector | | | | | |
| 1 | Talcher STPS (NTPC) | | | | |

| Sl No | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule | Anticipated commissioning schedule | Reasons for Delay |
|-------|--|---------------|---------------------------------|------------------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Unit -1 | 500 | 2/94 | 4/94 | |
| | Unit -2 | 500 | 2/95 | 3/95 | |
| | (Distt Dhenkanal) | | | | |
| | GUJARAT | | | | |
| | State Sector | | | | |
| 1 | Sikka Extn 2/88 | | | | |
| | Unit-2 | 120 | 6/92 | 12/92 | a) Paucity of funds |
| | ((Distt Jamnagar) | | | | b) Delay in readiness of TG hall |
| | | | | | c) Delay in supply of Bir and TG equipment of BHEL |

| Sl No | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule | Anticipated commissioning schedule | Reasons for Delay |
|-------|--|---------------|---------------------------------|------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 2 | Utran Comb Cycle gas based plant 3/90 Gas Turbine | | | | |
| | Unit -1 | 33 | 3/91 | 1/92 (cranked) | a) Delay in supply of equip by BHEL |
| | Unit-2 | 33 | 5/91 | 3/92 (cranked) | b) Delay in readiness of project inputs |
| | Unit-3 | 33 | 7/91 | 8/92 | c) Non-availability of gas |
| | Steam Turbine | | | | |
| | Unit-1 (Distt Surat) | 45 | 9/91 | 12/92 | |
| 3 | Kutch Lignite Extn 12/88 | | | | |
| | Unit-3 (Distt Kutch) | 70 | 95 96 | | |

| Sl No | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule | Anticipated commissioning schedule | Reasons for Delay |
|--|--|---------------|---------------------------------|------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| <i>Central Sector</i> | | | | | |
| 1 | Kawas Gas based comb cycle 2'87 | | | | |
| | <i>Gas Turbines</i> | | | | |
| | Unit- 1 | 106 | 6/89 | 3/92 (Actual) | Delay in finalisation of order for main plant and equipment |
| | Unit-2 | 106 | 8/89 | 7/92 | |
| | Unit-3 | 106 | 10/89 | 9/92 | |
| | Unit-4 | 106 | 12/89 | 11/92 | |
| | <i>Steam Turbine</i> | | | | |
| | Unit-1 | 110 | 6/90 | 5/93 | |
| | Unit-2 | 110 | 10/90 | 8/93 | |
| * As order for main plant and equipment is yet to be placed commissioning schedule cannot be anticipated | | | | | |

| Sl. No. | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule. | Anticipated commissioning schedule | Reasons for Delay |
|-----------------------------|--|---------------|----------------------------------|------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| BIHAR | | | | | |
| RE. Power Project | | | | | |
| Sanctioned/On-going Project | | | | | |
| 1. | Koel Karo Dist. Ranchi Gumla Singhbhum 7/82 (Revised Sanction 11/91) | 4x172.5+1x20 | 88/89 | 2.5.8.11-99 & 2/99 | Constraints of funds and acquisition of land. |
| 2. | Eastern Gandek Canal West Champaran 9 6.83 | 3x5 | 87-88 | 9.12/99 3-93 | Delay of civil works of power channel. |
| 3. | Sone Western Canal Distt Rohtas 10.3.84 | 4x1 65 | 88-89 | 7.8.10, 12/92 | Delay in BHEL supplies |

| Sl. No. | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule. | Anticipated commissioning schedule. | Reasons for Delay |
|-------------------------------------|--|---------------|---|-------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 4. | Sone Eastern Canal Distt. Aurangabad 30.6.86 | 2x1 | 89-90 | 4,6/93 | Cash flow problems and delay in civil works |
| 5. | Chandil Distt. Singhbhum 14.4.87 | 2x4 | 90-91 | 6,8,94 | Cash flow problems. |
| 6. | North Koel Distt. Daltamu 10.3.84 | 2x12 | 87-88 | 1,3/94 | Delay in civil works of tail race tunnels and power house |
| ORISSA | | | | | |
| <i>Hydro Power Projects</i> | | | | | |
| <i>Sanctioned/On-going projects</i> | | | | | |
| | Rengali St. II Distt. Dhankal 1.11.85 | 3x50 | U I Command U II Command U. III Command | 8/89 3/90 6/92 | Delay in civil works. Delay in BHEL supplies |

| Sl No | Project/Unit, date of sanction and location | Capacity (MW) | Original commissioning schedule | Anticipated commissioning schedule | Reasons for Delay |
|--------------------------------------|---|---------------|---------------------------------|------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 2 | Upper Kolab St II Dist Koraput 12 9 84 | 1x80 | 3/90 | 5/92 | Delay in BHEL Supplies |
| 3 | Upper Indravati Dist Kalahandi 3 5 78 | 4x150 | 9 86 3 9/87 & 3/88 | 9/93 1,5,9,94 | Delay in civil works & flooding of the Power House due to breach of Coffer Dam |
| UTTAR PRADESH | | | | | |
| Hydro Power Projects | | | | | |
| Sanctioned/Ongoing Projects/District | | | | | |
| 1 | Tehr St I Central Sector *THDC) June 72 (for 4x150 MW) | 4x250 | 1981-82 | 1996-97 | Change of scope, delay in award of civil works, fund constraint |

| Sl. No. | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule. | Anticipated commissioning schedule. | Reasons for Delay |
|---------|---|-----------------|----------------------------------|-------------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 2. | Maneri Bhal, St. II Uarkashi January, 81 (for 3x52 MW) | 4x76 | 1989-90 | 1996-98 | All works stopped, due to funds constraint inadequate outlays. Low priority by |
| 3. | Srinagar Pauri Garnwal 6x55 January, 88 | 6x55 | 1991-92 | 1997-98 | Delay in land acquisition, and award of power channel works. Funds constraints due to suspension of World Bank aid w.e.f. from 1.4.91 |
| 4. | Lakhwar Vyasi Dehradun January, 76 (for 540 MW) | 3x100 +2x60 | 1989-90 | 1996-97 | Funds constraints |
| 5. | Vishnu Prayag Chamoli July, 78 4x65 MW) | 3x120 +1x120 | 1984-85 | 9th Plan | Project rejected by MDEF on environmental aspects. |

| Sl No | Project/Unit, date of sanction and location | Capacity (MW) | Original commissioning schedule | Anticipated commissioning schedule | Reasons for Delay |
|---|---|---------------|---------------------------------|------------------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 6 | Dhauliganga/ Central Sector (NHPC) Pittoragarh April 91 | 4x70 | 1998-99 | 1998-99 | - |
| 7 | Sobla Pittoragarh Oct 88 | 2x3 | 1993-94 | 1992-93 | - |
| 8 | Rajghat (Joint Project of U P / M P Lalitpur & Guna August 91 | 3x15 | 1995-96 | 1994-95 | - |
| GUJARAT | | | | | |
| <i>Hydro Power Projects</i> | | | | | |
| <i>Sanctioned/On going power projects</i> | | | | | |
| 1 | Kadana P S S E . Distt Panchmahal 26 6 72 | 2x60 | 85-86 | 9/95 3/96 | Due to fund constraint with GEB/Govt of Gujarat, Project was not accorded priority |

| Sl. No. | Project/Unit/date of sanction and location | Capacity (MW) | Original commissioning schedule. | Anticipated commissioning schedule. | Reasons for Delay |
|---------|--|---------------|----------------------------------|-------------------------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 2. | Sardar Sarovar RBPH Distt. Broach 5.10.88 | 6x200 | 94-97 | 9,10,11,12/95 3 and 7/96 | Delay in concreting of Main Dam due to release of foreign exchange for Batching Plant. There is also problem of release of 2nd installment of OECF loan for T.G. Sets. |
| 3. | Canal Head Pump House 5.10.88 | 5x50 | 94-96 | 8,9,10,11/95, 2.96 | |